

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	<b>ATTY. DOCKET NO.</b> 259 181	<b>SERIAL NO.</b>
	<b>APPLICANT:</b> Malcom R. Alison; Charles Coutelle; Stuart J. Forbes; Humphrey J.F. Hodgeson; Ildiko Sarosi; Michael Themis	
	<b>FILING DATE:</b>	<b>GROUP:</b>

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AA	5,650,504	07/22/97	Bartley, Timothy D., et al.			05/24/95
	AB	5,712,163	1/27/98	Parenteau, et al.			
	AC	5,716,934	02/10/98	Bartley, Timothy D., et al.			05/30/95
	AD	5,814,605	09/29/98	Pierce, Glenn Francis, et al.			06/06/95
	AE	5,824,303	10/20/98	Bartley, Tomothy D., et al.			05/19/95
	AF	5,824,643	10/20/98	Pierce, Glenn Francis, et al.			06/07/95
	AG	5,858,977	01/12/99	Aukerman, Sharon Lea			04/11/97
	AH	5,900,404	05/04/99	Gegg, Colin, et al.			08/15/97

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	AI	WO96/11949	4/25/96	PCT			
	AJ	WO96/11951	4/25/96	PCT			
	AK	WO98/24813	6/11/98	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	AL	Andreadis, et al., Cell Cycle Dependence Of Retroviral Transduction: An Issue of overlapping time scales. Biotechnology and Bioengineering 58:272-281 (1998)					
	AM	Angervo M, et al., Tri-iodothyronine and cycloheximide enhance insulin-like growth factor-binding protein-1 gene expression in human hepatoma cells, J. Mol. Endocrinol. 10(1):7-13 (1993)					
	AN	Batshaw, Inborn errors of urea synthesis. Ann. Neurol. 35(2):133-141 (1994)					
	AO	Bieniasz PD, et al., Cell cycle dependence of foamy retrovirus infection. J. Virol. 69(11):7295-9 (1995)					
	AP	Bosch A, et al., Proliferation induced by keratinocyte growth factor enhances in vivo retroviral-mediated gene transfer to mouse hepatocytes. J. Clin. Invest. 98(12):2683-7 (1996)					
	AQ	Bowling WM, et al., Portal branch occlusion safely facilitates in vivo retroviral vector transduction of rat liver, Hum. Gene Ther. 7(17):2113-21 (1996)					
	AR	Branchereau S, et al., Factors influencing retroviral-mediated gene transfer into hepatocytes in vivo. Hum. Gene Ther. 5(7):803-8 (1994)					

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LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

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Malcom R. Alison; Charles Coutelle; Stuart J. Forbes;  
Humphrey J.F. Hodgson; Ildiko Sarosi; Michael Themis

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AS	Canzanelli, et al., Control of liver regeneration and nucleic acid content by the thyroid: with the observations on the effects of pyrimidines. <i>Am.J.Physiol.</i> 157:225-229 (1949).
AT	Cardoso, et al., In situ retrovirus-mediated gene transfer into dog liver. <i>Human Gene Therapy</i> 4:411-418 at 412 (1993)
AU	Chang and Wu, Gene therapy: applications to the treatment of gastrointestinal and liver diseases, <i>Gastroenterology</i> 106:1076-1084 (1994)
AV	Choo KH, et al., Molecular cloning of the gene for human anti-haemophilic factor IX, <i>Nature</i> . 299(5879):178-80 (1982)
AW	Clarke DJ, et al., Genetic defects of the UDP-glucuronosyltransferase-1 (UGT1) gene that cause familial non-haemolytic unconjugated hyperbilirubinaemias, <i>Clin. Chim. Acta</i> 266(1):63-74 (1997)
AX	Cosset FL, et al., High-titer packaging cells producing recombinant retroviruses resistant to human serum. <i>J. Virol.</i> 69(12):7430-6 (1995)
AY	Demori I, et al., Tri-iodothyronine increases insulin-like growth factor binding protein-4 expression in rat hepatocytes. <i>J. Endocrinol.</i> 154(1):155-65 (1997)
AZ	Davern, et al., Gene therapy for liver disease. <i>Dig. Dis.</i> 16:23-37 (1998)
BA	Eisensmith & Woo, Somatic gene therapy for phenylketonuria and other hepatic deficiencies, <i>J. Inher. Metab. Dis.</i> 19:412-423 (1996)
BB	Ferry N, et al., Retroviral-mediated gene transfer into hepatocytes in vivo, <i>Proc. Nat'l Acad. Sci. U S A.</i> 88(19):8377-81 (1991)
BC	Ferry & Heard, Liver-directed gene transfer vectors, <i>Human Gene Ther.</i> 9:1975-1981 (1998)
BD	Fisher, et al., Recombinant adeno-associated virus for muscle directed gene therapy. <i>Nat. Med.</i> 3:306-312 (1997)
BE	Forbes and Hodgson, Review article: gene therapy in gastroenterology and hepatology, <i>Aliment. Pharmacol. Ther.</i> 11:823-836 (1997)
BF	Forbes SJ, et al., Retroviral gene transfer to the liver in vivo during tri-iodothyronine induced hyperplasia, <i>Gene Ther.</i> 5(4):552-5 (1998)
BG	Francavilla A, et al., Hepatocyte proliferation and gene expression induced by triiodothyronine in vivo and in vitro, <i>Hepatology</i> 20(5):1237-41 (1994)
BH	Horsthemke B, et al., Identification of a deletion in the low density lipoprotein (LDL) receptor gene in a patient with familial hypercholesterolaemia. <i>Hum. Genet.</i> 71(1):75-8 (1985)
BI	Horwich, Inherited hepatic enzyme defects as candidates for liver-directed gene therapy. <i>Curr. Top. Microbiol. Immunol.</i> 168:185-200 (1991)
BJ	Housley RM, et al., Keratinocyte growth factor induces proliferation of hepatocytes and epithelial cells throughout the rat gastrointestinal tract, <i>J. Clin. Invest.</i> 94(5):1764-77 (1994)
BK	Hudig F, et al., Tri-iodothyronine prevents the amiodarone-induced decrease in the expression of the liver low-density lipoprotein receptor gene, <i>J. Endocrinol.</i> 152(3):413-21 (1997)
BL	Ill, Charles R, et al., Optimization of the human factor VIII complementary DNA expression plasmid for gene therapy of hemophilia A, <i>Blood Coagulation and Fibrinolysis</i> , Vol. 8, Suppl. 2, 1997
BM	Kay, et al., Hepatic gene therapy: persistent expression of human alpha 1-antitrypsin in mice after direct gene delivery in vivo, <i>Human Gene Therapy</i> 3:641-647 at 642 (1992)
BN	Kitraki E, et al., Hormonal control of insulin-like growth factor-II gene expression in the rat liver, <i>J. Mol. Endocrinol.</i> 9(2):131-6 (1992)
BO	Knaan-Shanzer S, et al., Cell cycle state, response to hemopoietic growth factors and retroviral vector-mediated transduction of human hemopoietic stem cells, <i>Gene Ther.</i> 3(4):323-33 (1996)

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BP	Kasai KI, et al., Retrovirus-mediated in vivo gene transfer in the replicating liver using recombinant hepatocyte growth factor without liver injury or partial hepatectomy, <i>Hum. Gene Ther.</i> 9(9):1293-301 (1998)
BQ	Li, et al., In vivo gene therapy for hyperlipidemia: phenotypic correction in Watanabe rabbits by hepatic delivery of the rabbit LDL receptor gene, <i>J. Clin. Invest.</i> 95:768-773 (1995)
BR	Lieber A. et al., Adenovirus-mediated urokinase gene transfer induces liver regeneration and allows for efficient retrovirus transduction of hepatocytes in vivo, <i>Proc. Nat'l Acad. Sci. U.S.A.</i> 92(13):6210-4 (1995)
BS	Lieber A. et al., A modified urokinase plasminogen activator induces liver regeneration without bleeding, <i>Hum. Gene Ther.</i> 6(8):1029-37 (1995)
BT	Mann, et al., Construction of a retrovirus packaging mutant and its use to produce helper-free defective retrovirus, <i>Cell</i> 33:153-159 (1983)
BU	Oinonen T, et al., Hormonal regulation of the zonated expression of cytochrome P-450 3A in rat liver, <i>Biochem. J.</i> 309 ( Pt 1):55-61 (1995)
BV	Ott, et al., Simultaneous up-regulation of viral receptor expression and DNA synthesis is required for increasing efficiency of retroviral hepatic gene transfer, <i>J. Biol. Chem.</i> 273(19):11954-61 (1998)
BW	Reich-Slotky R, et al., Chimeric molecules between keratinocyte growth factor and basic fibroblast growth factor define domains that confer receptor binding specificities, <i>J. Biol. Chem.</i> 270(50):29813-8 (1995)
BX	Rettinger SD, et al., In vivo hepatocyte transduction with retrovirus during in-flow occlusion, <i>J. Surg. Res.</i> 54(5):418-25 (1993)
BY	Roe, et al., Integration of murine leukemia virus DNA depends on mitosis, <i>EMBO J.</i> 12:2099-2108 (1993)
BZ	Rusch, Sharyn L., et al., Protein transport via amino-terminal targeting sequences: common themes in diverse systems (Review), <i>Molecular Membrane Biology</i> 12, 295-307 (1995)
CA	Sandig and Strauss, Liver-directed gene transfer and application to therapy, <i>J. Mol. Med.</i> 74:205-212 (1996)
CB	Shima N, et al., Hepatocyte growth factor and its variant with a deletion of five amino acids are distinguishable in their biological activity and tertiary structure, <i>Biochem. Biophys. Res. Commun.</i> 200(2):808-15 (1994)
CC	Stolz DB, et al., Comparative effects of hepatocyte growth factor and epidermal growth factor on motility, morphology, mitogenesis, and signal transduction of primary rat hepatocytes, <i>J. Cell. Biochem.</i> 55(4):445-64 (1994)
CD	Strain AJ, et al., Native and recombinant human hepatocyte growth factors are highly potent promoters of DNA synthesis in both human and rat hepatocytes, <i>J. Clin. Invest.</i> 87(5):1853-7 (1991)
CE	Von Heijne, Gunnar, Signal Sequences, The Limits of Variation, <i>J. Mol. Biol.</i> (1985) 184, 99-105
CF	Zarnegar R, et al., Expression of hepatocyte growth factor mRNA in regenerating rat liver after partial hepatectomy, <i>Biochem. Biophys. Res. Commun.</i> 177(1):559-65 (1991)
CG	Zhang, W.-W., Antisense oncogene and tumor suppressor gene therapy of cancer, <i>J. Mol. Med.</i> 74:191-204 (1996)

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CH	Alberts, et al., Molecular Biology Of The Cell, 2d Edition, pp. 961-2.
CI	Bosch, et al., Effects of keratinocyte and hepatocyte growth factor in vivo: implications for retrovirus-mediated gene transfer to liver, Hum Gene Ther 9(12):1747-54 (1998).
CJ	Cabrera, et al., Targeted retroviral gene transfer into the rat biliary tract, Somat Cell Mol Genet. 22(1):21-9 (1996).
CK	Cai et al., "Therapeutic Levels of Human Protein C in Rats after Retroviral Vector-mediated Hepatic Gene Therapy"; ©The American Society for Clinical Investigation, Inc., Vol. 101, No. 12, June 1998, pp. 2831-2841
CL	Crystal, R.G. Transfer of Genes to Humans: Early Lessons and Obstacles to Success. Science 270:404-410.
CM	Deonarain, M.P. Ligand-targeted receptor-mediated vectors for gene delivery. Exp. Opin. Ther. Patents 8(1):53-69.
CN	Forbes S J et al., "Tri-iodothyronine and dHGF synergistically enhance hepatocyte DNA synthesis in vivo and enable peripheral venous strategies for retroviral gene transfer." HEPATOLOGY, vol. 28, no. 4 PART 2, October 1998 (1998-10), page 503A XP000946022; Biennial Scientific Meeting of the International Association for the Study of the Liver and the 49 <sup>th</sup> Annual Meeting and Postgraduate Courses of the American Association for the Study of Liver Diseases; Chicago, Illinois, USA; November 4-10, 1998; ISSN: 0270-9139 abstract
CO	Forbes S J et al., "Retroviral gene transfer to the liver in vivo without prior partial hepatectomy." CLINICAL SCIENCE (London), vol. 94, no. 2, February 1998 (1998-02), page 2P XP000946045; Meeting of the Medical Research Society; London, England, UK; November 13-14, 1997; ISSN: 0143-5221 abstract
CP	Forbes et al., Gastroenterology, Vol. 118, pages 591-598.
CQ	Fujimoto, "Hepatology: Microcirculation and Pathogenesis of Alcoholic Liver Injury Gene therapy for liver cirrhosis"; Journal of Gastroenterology and Hepatology (2000) 1S (Suppl.) pp. D33-D36;
CR	Gerolami et al., "Evaluation of HSV- <i>tk</i> Gene Therapy in a Rat Model of Chemically Induced Hepatocellular Carcinoma by Intratumoral and Intrahepatic Artery Routes; Cancer Research February 15, 2000, Vol. 60, No. 4, pp. 779-1152
CS	Grove et al., "Pre-clinical trials using hepatic gene delivery", Advanced Drug Delivery Reviews 30 (1998) pp. 199-204
CT	Kolodka et al., "Gene therapy for diabetes mellitus in rats by hepatic expression of insulin"; Proc. Natl. Acad. Sci. USA, Vol. 92, April 1995, Medical Sciences, pp. 3293-3297
CU	Kalodka et al., "Hepatic Gene Therapy: Efficient Retroviral-Mediated Gene Transfer into Rat Hepatocytes In Vivo"; Somatic Cell and Molecular Genetics, Vol. 19, No. 5, 1993, pp. 491-497
CV	Le et al., "Therapeutic Levels of Functional Human Factor X in Rats After Retroviral-Mediated Hepatic Gene Therapy"; Blood, Vol. 89, No. 4 (February 15), pp. 1254-1259
CW	Ledley et al., "Retroviral gene transfer into primary hepatocytes: Implications for genetic therapy of liver-specific functions"; Proc. Natl. Acad. Sci. USA, Vol. 84, August 1987, Genetics, pp. 5335-5339
CX	Lucey et al., "Minimal criteria for placement of adults on the liver transplant waiting list: a report of a national conference organized by the American Society of Transplant Physicians and the American Association for the Study of Liver Diseases"; Liver Transplantation and Surgery, Vol 3, 628-637
CY	Miller et al. Targeted vectors for gene therapy. FASEB J. 9:190-199.
CZ	Murphy, G.P. et al. American Cancer Society Textbook of Clinical Oncology, Second Edition. The American Cancer Society Inc., Atlanta.

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	DA	Orkin, S.H. et al. Report and Recommendation of the Panel to Assess the NIH Investment in Research on Gene Therapy. National Institute of Health. Bethesda, Maryland.
	DB	Pakkanen, et al., Improved gene transfer efficiency in liver with vesicular stomatitis virus G-protein pseudotyped retrovirus after partial liver resection and thymidine kinase-ganciclovir pre-treatment, Pharmacol Res. 40(5):451-7 (1999).
	DC	Pakkanen, et al., Enhanced plasma cholesterol lowering effect of retrovirus-mediated LDL receptor gene transfer to WHHL rabbit liver after improved surgical technique and stimulation of hepatocyte proliferation by combined partial liver resection and thymidine kinase-ganciclovir treatment, Gene Ther. 6(1):34-41 (1999)
	DD	Qi et al., "Blockade of type $\beta$ transforming growth factor signaling prevents liver fibrosis and dysfunction in the rat"; Proc. Natl. Acad. Sci. USA, Vol. 96, March 1999, Medical Sciences, pp. 2345-2349
	DE	Remington's Pharmaceutical Services, Mack Publishing Company: Easton, PA, 18th Edition, pages 1303, 1304, and 1571.
	DF	Ruiz et al.; "Gene therapy of viral hepatitis and hepatocellular carcinoma"; Journal of Viral Hepatitis, 1999, 6, pp. 17-34
	DG	Themis M. et al. Enhanced in vitro and in vivo gene delivery using cationic agent completed retrovirus vectors, Gene Ther. 1998 Sept; 5(9):1180-6
	DH	Ueki et al., "Hepatocyte growth factor gene therapy of liver cirrhosis in rats"; 1999 Nature America Inc., Vol. 5, No. 2, February 1999, pp. 226-230
	DI	Verma, I.M. et al. Gene therapy - promises, problems and prospects. Nature 389:239-242.

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